

ABSTRACT OF THE DISCLOSURE

A device is presented including a medical device adapted to be inserted in an anatomy. The medical device has many target markers. A magnetic resonance imaging (MRI) system will not detect or will disregard the medical device as noise without information obtained on the plurality of target markers prior to insertion of the medical device into the anatomy. Also presented a method including inserting a medical device into an anatomy. The medical device has many target markers. Scanning a magnetic resonance image (MRI) of the anatomy. Processing the scanned image by a MRI processor connected to a memory. Determining a location and orientation of the medical device in relation to the anatomy based on the target markers. And displaying a precise image of the medical device within the anatomy. The medical device is not detectable or disregardable as noise for MRI systems.